# User manual

## LEDMOONRAKER

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# INTRODUCTION

Welcome to use LED moon flower light. This unit has DMX mode, Sound active mode and Master/Slave mode. It adopts dipswitches to choose functions, which makes it easy to operate. Besides, it is compactable and suitable for all kinds of entertainment places. **Read the instructions carefully and thoroughly before use and follow operations it referred to you.**

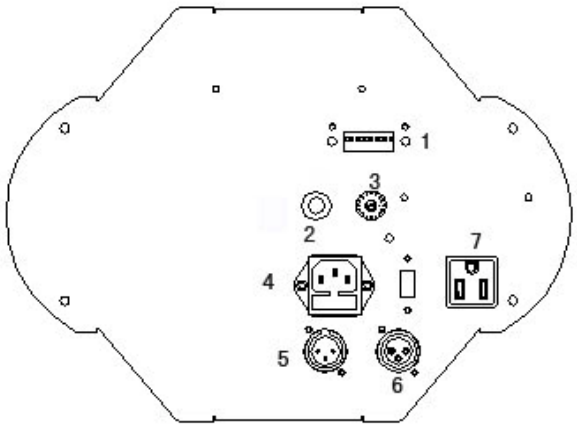
**Main features:**

- DMX –512 protocol, 6 DMX channels
- DMX mode, automatic mode, sound active and Master/Slave mode
- Built-in auto programs
- Built-in sound active programs

# SAFETY INFORMATION

- For indoor use only.
- Put it in a dry, ventilated place in case of short cut caused by erosion of moisture and rain.
- Do not install it nearby hot place in case rising temperature of light damage itself.
- Do not barrier vent in order to ventilate well and dissipate in time.
- Connect the light with power source and ground the fixture electrically. Voltage of power source is in accordance with rating voltage.
- If fuse was damaged, change it with the same type fuse.
- No spared accessories is available .If needed, please contact the factory.
- Ambient of the light should not exceed $40^0$
- If any problem, contact professional technician to solve.

# PANEL REVIEW



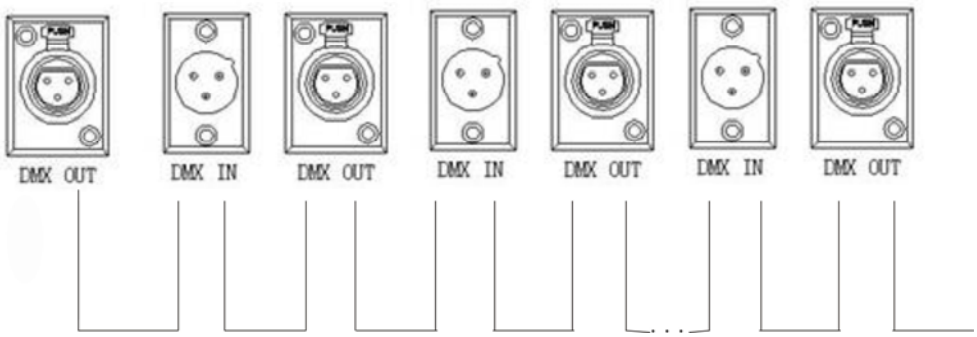

1. Dipswitches
2. Microphone
3. Sound sensitivity knob
4. Power input
5. DMX in
6. DMX out
7. Power output

# INSTALLATION

## Overhead mounting

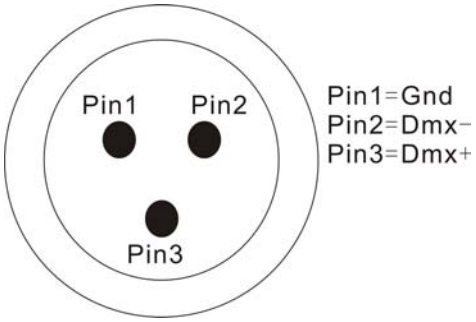
- Verify that the structure can support at least 10 times the weight of all installed fixtures, clamp, cables, auxiliary equipment, and other items.
- If hanging the fixture with a rigging clamp, verify that the clamp is undamaged and is designed for the fixture's weight. Bolt the clamp securely to the mounting bracket on the fixture with a grade 8.8 minimum.
- Working from a stable platform, clamp or fasten the fixture to the structure
- Loose the swivel locks, tilt the fixture to the desired angle, and retighten it.
- Verify the fixture is at least 3.3ft from the surface to be illuminated and at least 1ft from any combustible materials.

## Multi-connectors methods



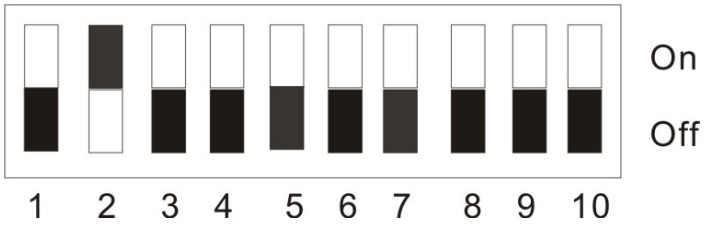

Controller/Master Light 1 Light2 … Lightn

## Input/output pin instruction



# OPERATION

## Switch on/off




Switch 2 is on, the left is off .

## Brief function chart (X means both On and Off are ok)

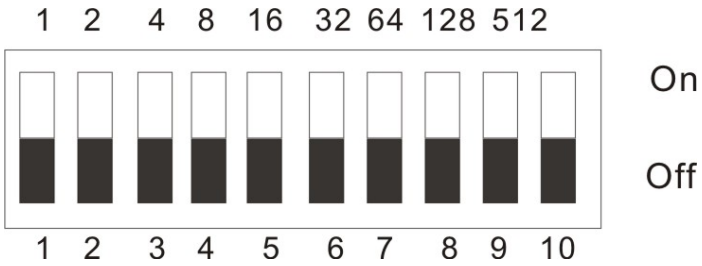
| Switches / Function | | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| D M X | | Set DMX address | | | | | | | | | ON |
| S L A V E | | x | x | x | x | x | x | x | x | x | ON |
| M A S T E R | SOUND | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| | AUTO | Auto speed | | | | OFF | OFF | OFF | OFF | ON | OFF |
| | STROBE | x | x | x | x | Strobe speed | | | OFF | ON | OFF |
| | ALL ON | x | x | x | x | x | x | x | ON | ON | OFF |

## DMX mode introduction

**Setting DMX mode**

***Notes:*** *no matter dipswitch1~9 is ON or OFF, dipswitches will not function.*

**Calculate DMX address**




FOR EXAMPLE: if switch #2 and switch#3 is on and the left are off,**DMX address is 6**. (0+0+0+0+0+0+4+2+0 = 6)

Switch #9 =0; Switch #8 = 0; Switch #7 = 0; Switch #6 = 0; Switch #5 =0;Switch #4 = 0;Switch #3 = 4;Switch #2 = 2; Switch #1 = 0.

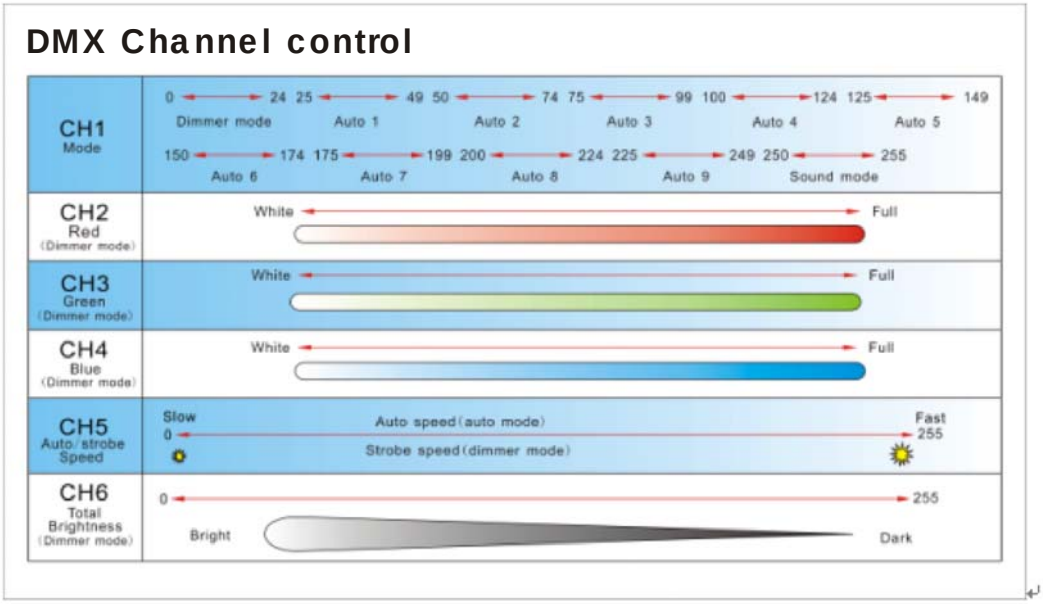
***Notes:*** *1. DMX address can be set by switches1~9.*

*2.When switch10 is ON, it is DMX mode, otherwise it is MASTER /SLAVE mode.*

*3.When switch is ON, its value is the correspondent data on the top.*

## DMX function

- When DMX signal exists, blue LED will flash.
- Each fixture occupies 6 DMX channels.
- DMX 512 signal can control multi fixtures ' different movements at the same time.
- Different DMX address of each fixture will lead to different movements.
- However, DMX address should be set first.

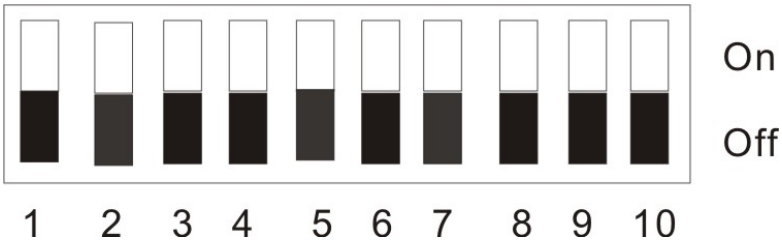



| Channel | Value | Function | |
|---|---|---|---|
| 1 | 000 ⇆ 024 | Mode | Dimmer mode |
| | 025 ⇆ 049 | | Auto 1 |
| | 050 ⇆ 074 | | Auto 2 |
| | 075 ⇆ 099 | | Auto 3 |
| | 100 ⇆ 124 | | Auto 4 |
| | 125 ⇆ 149 | | Auto 5 |
| | 150 ⇆ 174 | | Auto 6 |
| | 175 ⇆ 199 | | Auto 7 |
| | 200 ⇆ 224 | | Auto 8 |
| | 225 ⇆ 249 | | Auto 9 |
| | 250 ⇆ 255 | | Sound mode |
| 2 | 000 ⇆ 255 | Red | Brightness 0 ~100% in dimmer mode |
| 3 | 000 ⇆ 255 | Green | Brightness 0 ~100% in dimmer |
| 4 | 000 ⇆ 255 | Blue | Brightness 0 ~100% in dimmer |
| 5 | 000 ⇆ 255 | Speed | Auto speed from slow to fast in auto |
| | | | Strobe speed from slow to fast in |
| 6 | 000 ⇆ 255 | Total | Brightness is 100% ~0 in dimmer |

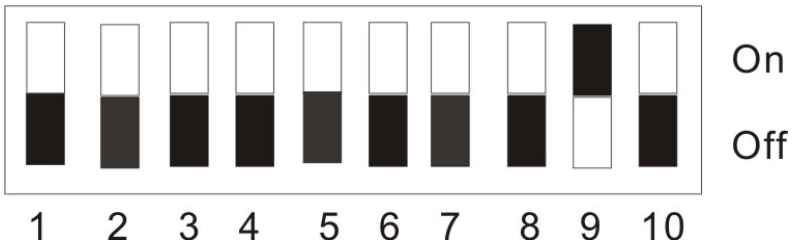
## MASTER mode introduction

This light is connected with multi-fixtures and a controller. Set one master connected with the controller and the left fixtures are slaves.

**Sound active mode**




**Auto mode**



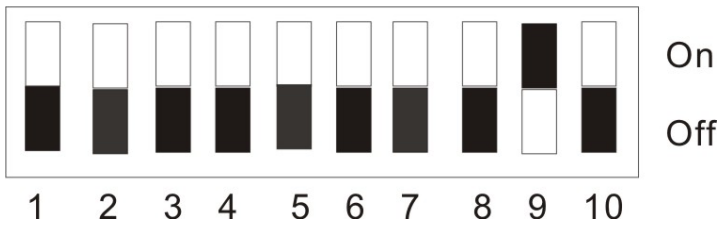

**Notes:*1****.Adjust auto speed by switch#1~4*

2. Switch#5,6,7,8,10 is off.

**Auto speed adjustment**(X means both On and Off are ok)

| Switch1 | Switch2 | Switch3 | Switch4 | Auto speed |
|---|---|---|---|---|
| OFF | OFF | OFF | OFF | No speed |
| ON | OFF | OFF | OFF | Slow |
| × | ON | OFF | OFF | Middle |
| × | × | ON | OFF | Fast |
| × | × | × | ON | Very fast |

**Strobe mode**



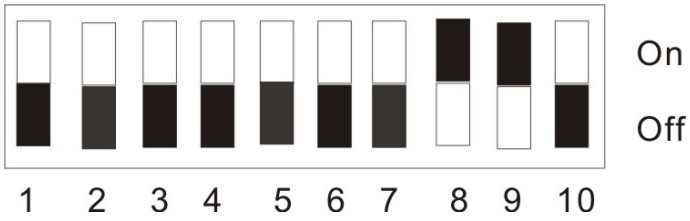

***Notes:*** *1.No matter switch#1~4 is On or Off, it won't affect performance.*

*2.Adjust strobe speed by switch#5~7(see the following chart).*

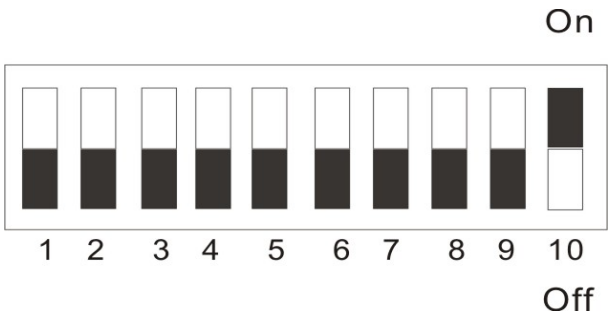
**Strobe speed adjustment** (X means both On and Off are ok)

| Switch5 | Switch6 | Switch7 | Strobe speed |
|---|---|---|---|
| OFF | OFF | OFF | No speed |
| ON | OFF | OFF | Slow |
| × | ON | OFF | Middle |
| × | × | ON | Fast |

**All on** (switch#1~7 won't function no matter On or Off)




## SLAVE mode ( Master and Slaves synchronize)




No matter switch1~9 is On or Off, they won't affect light's performance.

# MAINTENANCE

## Troubleshooting

| Problem | Probable cause(s) | Suggested remedy |
|---|---|---|
| Fixtures does not work | No power source | Check if power source is on and power cord is connected well. |
| | Fuse burnt | Cut off power source and change the same type fuse. If fuse was burnt on end, it may be the problem of line connection |
| Reset normally, but controller abnormally or no response | False or incomplete data connection | Check the data line.<br>Ensure connection of data line is right and the first lamp's single input is connected with the controller output. |
| | False address setting | Check DMX address. |
| | Problem of signal cord of some fixtures | Pull out signal line and butt joint, trying to find malfunctioned lamp one by one. Or contact with professional technicians. |
| | Signal output does not match with the pin (pins2 and pins3 has a wrong sequence) | Toggle the PHASE button on the controller to reverse the polarity. |

## Cleaning

Quality of the product is our top priority. However it is indispensable to maintain it periodically to ensure best performance. Following advices are for you reference.

*First, clean fan and vent.*

Clean fan and vent periodically to dissipate heat and ventilate well. Otherwise dust maybe barrier vent and affect performance.

*Second, check line periodically.*

Check connecting line, wiring and ground line to ensure safety of light.

# TECHNICAL SPECIFICATION

Dimension----------L11.8 x W12.2 x 12H inch
LED color & number----------red 60/green36/blue 66
Beam angle----------45°
Control& programming
Data input----------3 pin XLR male socket
Data output----------3 pin XLR female socket
Data pin configuration----------pin 1 shield, pin 2(-),pin (+)
Protocols----------DMX-512 USITT
DMX channels----------6
Surrounding temperature----------35℃
Surrounding voltage----------120V 60HZ
Fuse---------- T2A 125V
Power----------25W
Weight----------12.1lb

# Appendix

## DMX address reference chart

| SWITHC SET<br>0 = OFF<br>1 = ON | | | | | #9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | #8 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 |
| | | | | | #7 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| | | | | | #6 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| #1 | #2 | #3 | #4 | #5 | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | | | 32 | 64 | 96 | 128 | 160 | 192 | 224 | 256 | 288 | 320 | 352 | 384 | 416 | 448 | 480 |
| 1 | 0 | 0 | 0 | 0 | | 1 | 33 | 65 | 97 | 129 | 161 | 193 | 225 | 257 | 289 | 321 | 353 | 385 | 417 | 449 | 481 |
| 0 | 1 | 0 | 0 | 0 | | 2 | 34 | 66 | 98 | 130 | 162 | 194 | 226 | 258 | 290 | 322 | 354 | 386 | 418 | 450 | 482 |
| 1 | 1 | 0 | 0 | 0 | | 3 | 35 | 67 | 99 | 131 | 163 | 195 | 227 | 259 | 291 | 323 | 355 | 387 | 419 | 451 | 483 |
| 0 | 0 | 1 | 0 | 0 | | 4 | 36 | 68 | 100 | 132 | 164 | 196 | 228 | 260 | 292 | 324 | 356 | 388 | 420 | 452 | 484 |
| 1 | 0 | 1 | 0 | 0 | | 5 | 37 | 69 | 101 | 133 | 165 | 197 | 229 | 261 | 293 | 325 | 357 | 389 | 421 | 453 | 485 |
| 0 | 1 | 1 | 0 | 0 | | 6 | 38 | 70 | 102 | 134 | 166 | 198 | 230 | 262 | 294 | 326 | 358 | 390 | 422 | 454 | 486 |
| 1 | 1 | 1 | 0 | 0 | | 7 | 39 | 71 | 103 | 135 | 167 | 199 | 231 | 263 | 295 | 327 | 359 | 391 | 423 | 455 | 487 |
| 0 | 0 | 0 | 1 | 0 | | 8 | 40 | 72 | 104 | 136 | 168 | 200 | 232 | 264 | 296 | 328 | 360 | 392 | 424 | 456 | 488 |
| 1 | 0 | 0 | 1 | 0 | | 9 | 41 | 73 | 105 | 137 | 169 | 201 | 233 | 265 | 297 | 329 | 361 | 393 | 425 | 457 | 489 |
| 0 | 1 | 0 | 1 | 0 | | 10 | 42 | 74 | 106 | 138 | 170 | 202 | 234 | 266 | 298 | 330 | 362 | 394 | 426 | 458 | 490 |
| 1 | 1 | 0 | 1 | 0 | | 11 | 43 | 75 | 107 | 139 | 171 | 203 | 235 | 267 | 299 | 331 | 363 | 395 | 427 | 459 | 491 |
| 0 | 0 | 1 | 1 | 0 | | 12 | 44 | 76 | 108 | 140 | 172 | 204 | 236 | 268 | 300 | 332 | 364 | 396 | 428 | 460 | 492 |
| 1 | 0 | 1 | 1 | 0 | | 13 | 45 | 77 | 109 | 141 | 173 | 205 | 237 | 269 | 301 | 333 | 365 | 397 | 429 | 461 | 493 |
| 0 | 1 | 1 | 1 | 0 | | 14 | 46 | 78 | 110 | 142 | 174 | 206 | 238 | 270 | 302 | 334 | 366 | 398 | 430 | 462 | 494 |
| 1 | 1 | 1 | 1 | 0 | | 15 | 47 | 79 | 111 | 143 | 175 | 207 | 239 | 271 | 303 | 335 | 367 | 399 | 431 | 463 | 495 |
| 0 | 0 | 0 | 0 | 1 | | 16 | 48 | 80 | 112 | 144 | 176 | 208 | 240 | 272 | 304 | 336 | 368 | 400 | 432 | 464 | 496 |
| 1 | 0 | 0 | 0 | 1 | | 17 | 49 | 81 | 113 | 145 | 177 | 209 | 241 | 273 | 305 | 337 | 369 | 401 | 433 | 465 | 497 |
| 0 | 1 | 0 | 0 | 1 | | 18 | 50 | 82 | 114 | 146 | 178 | 210 | 242 | 274 | 306 | 338 | 370 | 402 | 434 | 466 | 498 |
| 1 | 1 | 0 | 0 | 1 | | 19 | 51 | 83 | 115 | 147 | 179 | 211 | 243 | 275 | 307 | 339 | 371 | 403 | 435 | 467 | 499 |
| 0 | 0 | 1 | 0 | 1 | | 20 | 52 | 84 | 116 | 148 | 180 | 212 | 244 | 276 | 308 | 340 | 372 | 404 | 436 | 468 | 500 |
| 1 | 0 | 1 | 0 | 1 | | 21 | 53 | 85 | 117 | 149 | 181 | 213 | 245 | 277 | 309 | 341 | 373 | 405 | 437 | 469 | 501 |
| 0 | 1 | 1 | 0 | 1 | | 22 | 54 | 86 | 118 | 150 | 182 | 214 | 246 | 278 | 310 | 342 | 374 | 406 | 438 | 470 | 502 |
| 1 | 1 | 1 | 0 | 1 | | 23 | 55 | 87 | 119 | 151 | 183 | 215 | 247 | 279 | 311 | 343 | 375 | 407 | 439 | 471 | 503 |
| 0 | 0 | 0 | 1 | 1 | | 24 | 56 | 88 | 120 | 152 | 184 | 216 | 248 | 280 | 312 | 344 | 376 | 408 | 440 | 472 | 504 |
| 1 | 0 | 0 | 1 | 1 | | 25 | 57 | 89 | 121 | 153 | 185 | 217 | 249 | 281 | 313 | 345 | 377 | 409 | 441 | 473 | 505 |
| 0 | 1 | 0 | 1 | 1 | | 26 | 58 | 90 | 122 | 154 | 186 | 218 | 250 | 282 | 314 | 346 | 378 | 410 | 442 | 474 | 506 |
| 1 | 1 | 0 | 1 | 1 | | 27 | 59 | 91 | 123 | 155 | 187 | 219 | 251 | 283 | 315 | 347 | 379 | 411 | 443 | 475 | 507 |
| 0 | 0 | 1 | 1 | 1 | | 28 | 60 | 92 | 124 | 156 | 188 | 220 | 252 | 284 | 316 | 348 | 380 | 412 | 444 | 476 | 508 |
| 1 | 0 | 1 | 1 | 1 | | 29 | 61 | 93 | 125 | 157 | 189 | 221 | 253 | 285 | 317 | 349 | 381 | 413 | 445 | 477 | 509 |
| 0 | 1 | 1 | 1 | 1 | | 30 | 62 | 94 | 126 | 158 | 190 | 222 | 254 | 286 | 318 | 350 | 382 | 414 | 446 | 478 | 510 |
| 1 | 1 | 1 | 1 | 1 | | 31 | 63 | 95 | 127 | 159 | 191 | 223 | 255 | 287 | 319 | 351 | 383 | 415 | 447 | 479 | 511 |